

Title (en)  
SECONDARY BATTERY

Title (de)  
SEKUNDÄRBATTERIE

Title (fr)  
BATTERIE SECONDAIRE

Publication  
**EP 3353842 A4 20181107 (EN)**

Application  
**EP 17824507 A 20170704**

Priority  
• KR 20160085571 A 20160706  
• KR 2017007105 W 20170704

Abstract (en)  
[origin: WO2018008951A1] Disclosed is a secondary battery. The secondary battery includes an electrode assembly having a plurality of unit electrode bodies, each electrode body including a positive electrode plate having a plurality of positive electrode uneven grooves into which a positive electrode active material is inserted, a negative electrode plate having a plurality of negative electrode uneven grooves located to face the positive electrode uneven grooves so that a negative electrode active material is inserted therein, and a unit separator interposed between the positive electrode plate and the negative electrode plate; and a case having an accommodation portion in which the electrode assembly and an electrolyte are accommodated, wherein the positive electrode plate and the negative electrode plate are symmetrical to each other on the basis of the unit separator.

IPC 8 full level  
**H01M 4/13** (2010.01); **H01M 4/78** (2006.01); **H01M 10/04** (2006.01); **H01M 10/052** (2010.01); **H01M 10/058** (2010.01)

CPC (source: EP KR US)  
**H01M 4/13** (2013.01 - EP KR US); **H01M 4/78** (2013.01 - EP US); **H01M 10/0472** (2013.01 - EP US); **H01M 10/052** (2013.01 - KR); **H01M 10/0525** (2013.01 - US); **H01M 10/058** (2013.01 - EP US); **H01M 50/46** (2021.01 - KR); **H01M 10/052** (2013.01 - EP US); **Y02E 60/10** (2013.01 - EP KR); **Y02P 70/50** (2015.11 - EP)

Citation (search report)  
• [XY] KR 20120008257 A 20120130 - NAT UNIV GYEONGSANG IACF [KR], et al  
• [X] US 2015380764 A1 20151231 - HECK PASCAL [CH], et al  
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• See references of WO 2018008951A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**WO 2018008951 A1 20180111**; CN 108140877 A 20180608; CN 108140877 B 20210202; EP 3353842 A1 20180801; EP 3353842 A4 20181107; EP 3353842 B1 20221214; ES 2935657 T3 20230309; HU E061112 T2 20230528; JP 2019504449 A 20190214; JP 6692433 B2 20200513; KR 102001105 B1 20190717; KR 20180005457 A 20180116; PL 3353842 T3 20230227; US 10749185 B2 20200818; US 2018316021 A1 20181101

DOCDB simple family (application)  
**KR 2017007105 W 20170704**; CN 201780003586 A 20170704; EP 17824507 A 20170704; ES 17824507 T 20170704; HU E17824507 A 20170704; JP 2018533129 A 20170704; KR 20160085571 A 20160706; PL 17824507 T 20170704; US 201715765618 A 20170704